

Review “High-resolution (0.05°x0.05°) NOx emissions in the Yangtze River delta inferred from OMI”

Since the previous review, many changes and additions have been made to the manuscript. This has improved the manuscript a lot. A few additions I consider not valuable enough for the main text and maybe can be moved to the supplementary material. Section 4.2 in which the emissions are compared with spatial proxies is rather superficial and not very quantitative. Not much can be concluded from it and I suggest to move this to the supplementary material. Section 5 is not an OSSE comparison, but more a test for internal consistency. Thus the naming should be changed and I suggest to move this also to the supplement.

The manuscript still contain many grammar errors , missing articles (ie. “the” and “a”) and the references have many mistakes. Below I mention several of them.

Page 3, Line 8: remove first reference to Zhao et al

Page 3, Line 10: change to demanding, and therefore difficult to be applied ...

Page 5, Line 11 What are pixel parameters ?

Page 8, line 5 “estimate” => “estimating”

Page 8, Line 20 “based on” => “by”

Page 9, Line 17: “become” => “because”

Page 10, Line 12: “as” => “ to”

Page 12, Line 6: “abovementioned” => “ above mentioned”

Page 17, Line 13: “based on the” => “ as can be concluded from “

Page 21, Line 8: The reference to Timmermans et al. seems not correct and redundant.

Page 24, Line 20: The use of a Google photo is not the equivalent to a validation with land use data. Either use a real land-use database or just remove the comparison to GoogleEarth from the manuscript.

Page 25, Line 22: I remain of the opinion that the programming language used in this study is not relevant to be mentioned in an ACP manuscript and should certainly not be mentioned in the concluding remarks.

I noticed mistakes or omissions in the references Boersma-2011, Ding-2017a, Elvidge-2013, Hersbach-2016, Yineger-1995, Liu-2017, Mahieu-2013, Mijling-2012, Sun-2018, Timmermans-2016

Figure 2: This is a rather textbook figure of a cost function and I suggest to remove it.

Figure 7: Images (c) and (e) have interpolated colors at the edges of the grid boxes.